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Europäisches Patentamt **European Patent Office** Offic européen des brevets



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- (4) Representative: Vossius, Tilman et al Dr. Volker Vossius, Patent- und Rechtsanwaltskanzlei, Holbeinstrasse 5 D-81679 München (DE)

Osaka 562 (JP)

- (4) GENE SIGNATURE.
- (a) A 3'-directed cDNA library which accurately reflects the abundance ration of mRNA in a cell has been prepared from various human tissues, and sequencing of the cDNAs contained in the library has be conducted to examine the incidence of each cDNA in each tissue. As each cDNA has expression information with each tissue corresponding to the mRNA concentration, these cDNAs are usable as a probe or primer for detecting cell anomoly or discriminating cells. The cloned gene can produce porteins utilizable as a medicine or the like.

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Table 4

SEQUENCE LISTING

- (1) GENERAL INFORMATION:
- (i) APPLICANT:
- (A) NAME: CHUGAI PHARMACEUTICAL CO., LTD.
- (B) STREET: 41-8, Takada 3-chrome, Toshima-ku
- (C) CITY: Tokyo
- (E) COUNTRY: JAPAN
- (F) ZIP: 171
- (ii) TITLE OF INVENTION: GENE SIGNATURE
- (iii) NUMBER OF SEQUENCES: 7848 15
 - (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.5 in., DS, 1.44 MB
- (B) COMPUTER: IBM PC compatible(C) OPERATING SYSTEM: PC-DOS/MS-DOS 20
 - (D) SOFTWARE: MS-DOS
 - (v) CURRENT APPLICATION DATA
 - (A) APPLICATION NUMBER: EP 95900295.7
 - (vi) PRIOR APPLICATION DATA
 - (A) APPLICATION NUMBER: PCT/JP94/01916
 - (B) FILING DATE: 11. November 1994

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5	SEQ ID NO:111 SEQUENCE LENGTH:375 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO0124 SEQUENCE DESCRIPTION:
10	GATCCTACCT ATCAAGCACT AAAAAGTTGA ACCATTATAC TITATATCTG TAATGATACT 60 GATTATGAAA TGTCCCCTCA AACTCATTGC AGCAGATAAC TTTTTTGAGT CATTGACTTC 120 ATTTTATATT TAAAAAATTA TGGAATATCA TCTGTCATTA TATTCTANTT AANGTTGTGC 180 ATAATGCTTT GGAANAATGG GTCTTTTATA GGAAAAAACC TGGGATAACT GATTTCTATG 240
15	GCTTTCAAAG CTNAAATATN TAATATACTA AACCANCTCT AATATTGCTT CTTGTGTTTT 300 ACTGTCAGNT TAANTTACAG CTTTTATGGG TGGTTAACTT TTCGTNCATT TTCAAAAAAN 360 CCNGGGGNNN NNNNN 375
20	SEQ ID NO:112 SEQUENCE LENGTH:356 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS00125
25	SEQUENCE DESCRIPTION: GATCTCTGTT TTGTTGTTGA AAATTCATTT GTATACTTTT GTTTTNATCT AGGACTTCAT 60 GTTTTTTNAA AGCACTGGCA GCCAGGAACA AAAATCAGGA GTGTGGTAGT GGATTAGTGA 120 AAGTCTCCTC AGGAAATCTG AAGTCTGTAT ATTGATTGAN ACTATCTAAN CTCATACCTG 180 TATGANTTAA GCTGTAAGGC CTGTAGCTCT GGTTGTATAC TTTTCCTTTT CAAATTATAG 240 TTTATCTNCT GTATAACTGA TTTATAAAGG TTTTTGTACA TTTNTNAATA CTCATTGTCA 300
30	ATTTGAGAAA AAGGACATAT GAGTTTTTNC ATTTATTAAT GNAACTNCCT TTGAAA 356
35	SEQ ID NO:113 SEQUENCE LENGTH:351 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS00127
40	SEQUENCE DESCRIPTION: GATCACATTA TNATAAATAA ATGAAAAAAT GATTTAATCT GTAATAAACT GGTTTATTGT 60 GCAGTGACTG TAATATACTA GAGTTATAAT AAATTGTTTA CTCTGCCTCA CCAAACACAT 120 GCTAGGATAT AACCCCCAAA ATAAGTATTT AACTTTGCAT TAGGTATAAA GGAGACTGGG 180 TGCTATAATN AGATTATTTT GAGGCAGACA GAGAGCTGTT ATCCTAACTG ATTTAGTATG 240
15	TTCTGTAATT GAGAAAATGT TCACCAAATN ATACTTTTTA GTGATTTACA TGTACATTTT 300 ATAGGGGACA TGTTCTGTGT ATAGCGAATA AATAACTTTT ATAGTATCAC N 351
o	SEQ ID NO:114 SEQUENCE LENGTH:352 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear
	CLONE: HUNGSO0128

SEQ ID NO:7844 SEQUENCE LENGTH: 37 SEQUENCE TYPE: nucleic acid 5 STRANDEDNESS: single TOPOLOGY: linear SEQUENCE DESCRIPTION: 37 CTCGCTCGCC CATCCTTATA CAGGCTCAGT TTTGTCT 10 SEQ ID NO:7845 SEQUENCE LENGTH: 37 SEQUENCE TYPE: nucleic acid STRANDEDNESS: single 15 TOPOLOGY: linear SEQUENCE DESCRIPTION: 37 CTCGCTCGCC CATGTATAGG GACAGCATTT CTGAGAG SEQ ID NO:7846 20 SEQUENCE LENGTH: 38 SEQUENCE TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear SEQUENCE DESCRIPTION: 25 38 CTGGTTCGGC CCACCTCTGA AGGTTCCAGA ATCGATAG 30 SEQ ID NO:7847 SEQUENCE LENGTH: 22 SEQUENCE TYPE: nucleic acid STRANDEDNESS: single 35 TOPOLOGY: linear SEQUENCE DESCRIPTION: 22 CCAGGGTTTT CCCAGTCACG AC SEQ ID NO:7848 40 SEQUENCE LENGTH: 22 SEQUENCE TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear 45 SEQUENCE DESCRIPTION: 22 TCACACAGGA AACAGCTATG AC

50 Claims

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1. A purified single-stranded DNA, a purified single-stranded DNA complementary thereto, or a purified double-stranded DNA consisting of said single strands, containing all or a portion of a single-stranded DNA or a single-stranded DNA complementary thereto comprising any of the base s quences listed under SEQ ID NO 1-7837 and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.

- 2. A DNA probe consisting of a purified single-stranded DNA, a purified single-stranded DNA complementary thereto, or a purified double-stranded DNA consisting of said single strands, containing all or a portion of a single-stranded DNA or a single-stranded DNA complementary the reto comprising any of the base sequences listed under SEQ ID NO 1-7837 and hybridizing sp cifically to a particular site of human genomic DNA, human cDNA or human mRNA.
- 3. `A DNA primer consisting of a purified single-stranded DNA, a purified single-stranded DNA complementary thereto, or a purified double-stranded DNA consisting of said single strands, containing all or a portion of a single-stranded DNA or a single-stranded DNA complementary thereto comprising any of the base sequences listed under SEQ ID NO 1-7837 and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.
- 4. A purified single-stranded DNA, a purified single-stranded DNA complementary thereto, or a purified double-stranded DNA consisting of said single strands, containing all or a portion of a single-stranded DNA or a single-stranded DNA complementary thereto, wherein said single-stranded DNA is complementary to a human mRNA containing any of the base sequences listed under SEQ ID NO 1-7837 (wherein T is read as U) or any portion thereof at its 3' region, and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.
- 5. A DNA probe consisting of a purified single-stranded DNA, a purified single-stranded DNA complementary thereto, or a purified double-stranded DNA consisting of said single strands, containing all or a portion of a single-stranded DNA or a single-stranded DNA complementary thereto, wherein said single-stranded DNA is complementary to a human mRNA containing any of the base sequences listed under SEQ ID NO 1-7837 (wherein T is read as U) or any portion thereof at its 3' region, and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.
 - 6. A DNA primer consisting of a purified single-stranded DNA, a purified single-stranded DNA complementary thereto, or a purified double-stranded DNA consisting of said single strands, containing all or a portion of a single-stranded DNA or a single-stranded DNA complementary thereto, wherein said single-stranded DNA is complementary to a human mRNA containing any of the base sequences listed under SEQ ID NO 1-7837 (wherein T is read as U) or any portion thereof at its 3' region, and hybridizing specifically to a particular site of human genomic DNA, human cDNA or human mRNA.

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Fig. 1

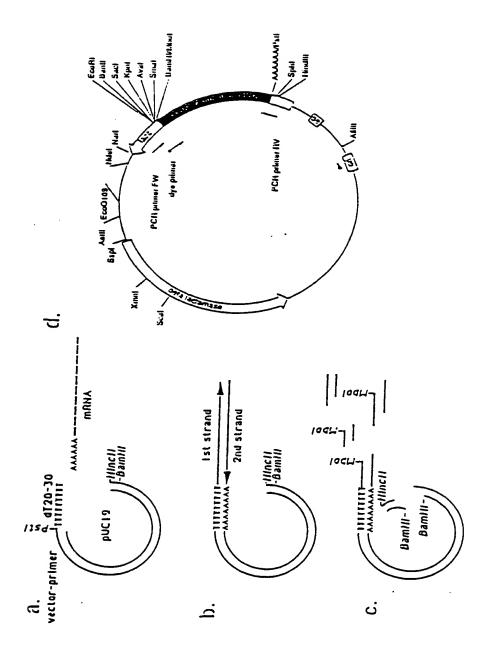


Fig. 2

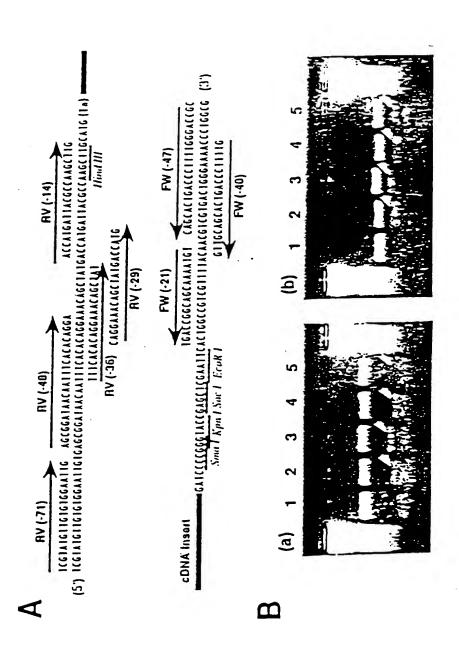


Fig. 3



Fig. 4

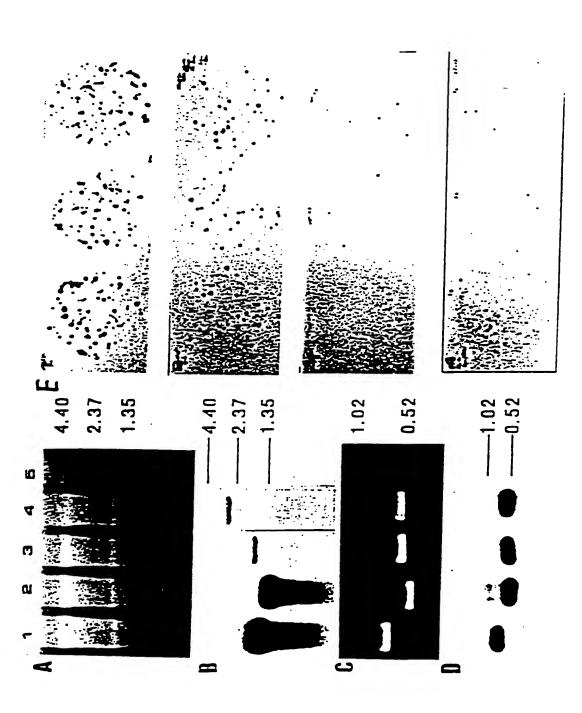


Fig. 4

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probe No.	1 1	2	3	4 .
gene	Eiongation factor	al-andaypsin	HnRNP core protein A1	Inter-c-crypsia inhibitor
(a) Band intensity of Northern blot(cpm)	687	423	10	15
(o)Band intensity of control blot(cpm)	133	177	100	127
(c)Normalized signal(a)/(b)x10	52	24	1	1.2
(d)Positive signals	307	119	7	9
e)Relative	44	17	ı	1.3

Fig. 5

earance	frequencies of	cies of various cDNAs in the 3'-directed HepG2	rected Hep	G2 cDNA' library	rary
Group	Clone	Gene	A In 982 (%)	"in 0,000 (%)"	C "in 26,400 (%)"
_	a15 c321 Tran lb030 lhm01b02 c13a04 lhm02d02 l	al5 Elongation factor - 1Aa c321 Translationally restricted tumor protein lb030 a-1-antitrypsin lm01b02 Light chain of ferritin c13a04 NADP(II) Menadione oxidoreductase lnn02d02 Ribosomal protein S11 lb042 Human RNP core protein A1	22 (2.2) 12 (1.2) 6 (0.0) 6 (0.0) 4 (0.4) 3 (0.3) 2 (0.2)	307 (3.5) 09 (1.0) 119 (1.4) 62 (0.7) 27 (0.3) 29 (0.3) 7 (0.1)	# # # # # # # # # # # # # # # # # # #
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Fig. 6

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Fig. 7

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46210010		•	AGAMATTANTAGCATAGGT	TAGAGICAAAGTIGCCTGTG	: :	2	2			_	_
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19110016	39 T T W		HACCHIACCGIGICTITAC	AGACAAATATCCCAAAAAGC	≎	2	2	901			. .
0,000153	pm2)20		ATTITUTE RESTRICTA	AGAAATGGATGCTTTA1TC	=	9	8	9			
32(10018	Silvo	• •	AAIGICATAGICICCTTICA	1GCATCC/TCAATGTC/TCT	7		: :	?	3 3	- (
10010	2000	•	CATTGAGACAGCAGCACAG	CCTGGCCCTCTCCTGAGTA	: :	: 3	2	× :	3	~	_
0,00140		•	TAGGCAAACACGAGAAGAG	AAGGAGCTGGTGTCACGTTC	: :	ě	3	?	2	-	_
	pm1785	•	TATATGCAMTATTCCAAGICIG	TOTANTATTOTOCOCCES	=	9	59	2	900	-	_
12510018	prin0205	•	MayAcararararar	iciwiwilcienicce i Alet	9	30	2	, 200	, 20d	-	_
\$2510016	pen0328	w	GCACCTAAGCTAAGC	HIMAMIGICATGGIAAT	~	Độ.	2	200	8	_	_
1,001	prn2619	•	Totocatocococococococococococococococococ	HHATATCAGTCCAAGAGC	2	801	aC.	, 200	3 200	-	
1,050624	16600140		C. C	TifGAGALITIAATGAGICATIC	Ç	62	63	, 200	4		
5111031	Den 0.281	. ,	GACCIGAAGTGTGAATGAGT	AACTTAGCITIAIGGGAITI	\$7	=			:		
697 (00) 16		•	AGCCAAACTCGGGGTCATCT	CCACGGGACAGGIGAGICAL	: 5	: :		3		-	~
	500	~	AATCATTTGGCGAGACTGTA	AAGACTTCATCAGC	2	2	2	2	200	-	-
E/Cimil	Pur1101	~	TCAGGCAGTCTGCTCAGATA	Tree Acceptance of the Control of th	\$	9	n n	g C		-	_
1000	95 80 mg	•	AACAGIATIGCGTTGTGAGTAG		;	2	76	170		-	_
9711031	pun252)	c	TOPOTOTION		\$	ã	ā	201	2	_	_
1001218	Pn2708	• 6	TOTALLE	AAAAACCAGAACACAAAG	2	8	3	=	991		
1,000260	300000	• ;	I O I A I I GGATTCTC	CAMAGCAMACAGCABATA	=	\$6	*		1		
35010010	99000	20	TRCCATCAAACACATACA	CTRIGAGNITGRIFFEIG	•	: 3	; ;		:		-
3113	es and	6	TMAGMICACCCICATIG	CACATGCTIATTGGAACACT	: :	; ;	2	٠ ;	. :	_	_
	- Konak	2	AAGTATTGTGCAAAGATGTA	AAGAAACACIGCCITGTGG	; ;	=	:	2	2	-	_
9971001	Poi2245	2	TGTGAATGCTATCTCTCT	COAATCOUTTOOTA	\$	=	7	\$ 200	2	~	~
1,500328	Pu12664	=	ATCAAACAACAATCCAGA	STATE OF THE STATE	•	9	5	2	902.	-	_
651169	prn0480	=	GAATAGCTTGGAGATTA	ACIAI MAINING CAACI	7	=	-21	<u> </u>	50	~	~
\$10,001	prn0415	Ξ	AAAGTOACCTTOATGCAGAGAG	CUAGANICATACCITICAGCA	9	001	35	=	26	_	_
2561001	pn12913	=	AGGGTGAAGGGTAWALAUJUUA ICGAGGGAAAATACATGCTGACT	I CGAGCCAAAATACATGCTGACT	3	3	151	\$ 200	991	_	~
6911001	Prid\$59	: =	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	CACATCATGGTTGAGAGCTA	=	3	5.0			~	
0(5163)	0H2010	: :	STORY IN THE STORY IS	TATTAACCAAATCCAGTA	?	7	7	125	s		
6(2003)	99000	: :	CIGIAAGGIIITTGGAATTATGT	TITCATITTICIACCAGATITAIT	7	75.02	· ×				
1911071		12	AGTGTATGGAAGACCTIGAG	GITCATTGAAACGGTGTAGC	: :		: }	?	3	-	_
5011001	ben 27.50	2	TCTCCCTATICACAACCAGT	AATGATITEGTAGGATAGCA		3 :	2	9	, 200	_	~
16116	Pm1193	2	CACAGCATAAAGAATCATA	ACCUTATITACE	?	9	70	> 200	2	_	~
\$621001	Pun2390	21	CATCATGGTACAGTCAGAAG	COLUMNITION	9	3	901			-	_
100131	pm1355	~!	AGATGTCAGTATCTCCTCATCC	CAULLIGGAAAIGTAITG	Į	9	2.9	6	3	_	_
1001308	pri0368	~	CCAAAGIGCIAGGGITAGAG	UNITALITY	7	3	۵	802	200	_	_
1,0001	pn/2645	: =	DESCRIPTION OF THE PROPERTY OF	HEANTAGACCTYGGGTTAC	\$	291,20	\$5	200	200		
		:	CIMAGAIIIAAIGCGAIICC	AGITAGIGIAIGGCAGAGGA	9		ā	902			
				•				,,,,		_	•

Fig. 8

910010016	Ph 1658	:	i								
610018	J.C.C.Imq		TGTAAGCCTATCAGAGTCA	AGACAGACTTATGCCATCTA	Ş	109,200	601	200	8	-	
49(100)	011gmd	: 2		GCAGITAATCATGGCTATTCTCC	3	123		200	081		
39(10)366	pm9364	: 5	ACIUAAAIGGAACATAGTCT	TACATTACATGACATTGTGA	2	· •		ž	3		
800110018	Pan 2301	: :	INCLINECTION OF THE COLORINA	амесатпетапапеста	\$	(9	;		·		
81001183	para0541	: :	CAIGAACCIGCTCACGACAA	GCCITACITTAATGCTGACC	5	8	. 2				
91001367	pm9 141	2 2	AAAIGAAIGTAAAIAGCACT	AFITAGTTTACAGGGAGAAT	=	2	_				
91001561	pun2307	: :	GETTECH THEATHGED	CATTCCACTCTTACATTTCT.	÷	~	: ≈	900	2 5		
01001576	Pm2010	: 3	ALCO AAACTCTGAAATC	AATGCTCATTTAITCTCAAG	42	S	: 33		200		, .
81001330	pra 22 20	: =	TOTOTTE	. ACGATAACNTANGGAGAT	00	69	. 69				
91000360	2000mg	2 5	ICCCATCCTCAGTTGAAGT	TGAGAACAAAGGAACCAGT	?		: 2	. 5	. 9	<u>.</u> .	
61001312	pm1127	2 4	TGGAATGGAACCCTTGCTA	ACITAIGCIGCCIGAAAIGG	. 3	5 6	2 2		2 5		- (
91001816	pm2543	2 5	CCCTGTTTTACATGTTCA	TATTAAATICICCCATTCAT	: \$. so	2 2	_	2 3	~ .	~ ₁
91001566	pn:0913	2 4	ACAGIGCTAAAATCAAAGGIG	TCTGACACTCAAGGTGCAAT	. \$	2		2 8		~ .	~ .
91 000000	Pal 157	2 2	HIGIGICGCACTATGTAAT	TCACTTTAATGGGAACCAG	=	: 3			. 8		
\$10010018	pm2368	= =	CICICCATGITCTCTACAAG	TAGAAGGAQAATCTGTGGTT	\$: =	· :		3 8		
95001156	pui0303	: :	AIAI ICACCI ICCCATCCAT	TCAAATACGTCCTCTCAAGC	\$	90			8		
81001173	pm2113	: :	CAUAAAIIAAGIGCAGCAAI	TCGTATCTGCATCFTTAAGT	\$	10	9		90		
1001301	Pun1070	= =	AAAAICIIGIGGTIAITICC	GTGATICIACIGTACATIGC	Ş	9			2		
91(1)16	1190110	: :	LAWI I GIGGAANCICITIGA	ACACATITGGGITIGCTITAAC	7	100		: ×	} a		
91001156	0m0\$30	> :	TGTGACAGCAGCTICAT	TCGTACATITIAATICCACC	\$	120	3 5	3	<u>.</u>		
\$6717016	pan 22 12	= :	CATCTCACAGGAAAC	ACCTAAGAGICCAGAGAAC	2	a	<u> </u>	. 5	- 8		
91001522	prii0642	2 2	IGACIGCAATAAGGAGTIGT	GAACATACCACGITTATITICT	98	9		98	3 8		
0,001030	Pun 1015	2 9	GICTICAGCAGATTICAGGT	ACTITCTTCTTGAGGAGACA	45	9		9	3 .		
81021117	PHIQ209	2 9	IGIGITCICCAGCITTGIAG	GITACATIGCCTIGGTACAG	65	59		_	. 6		
6911001467	0091100	<u>.</u>	GGATCAGACCAACAGTGCTG	GCAAGGTATAAAACAGATTA	9	3			3 .		
99010019	9(0)100	2 6	CANGECCACCTGCACCTCA	GGAGAGTAFIGGGGAACGGT	3	G		50			
94001000	pm) 146	2 5	GCCATGCTTGTAAGTGATGT	Tragaagceattaggata	\$	2	_				
690100018	PHD112	2 8	GCCCITAGGAITCACTGCTC	ACCACCCAAGGTCTITCAGG	\$2	99		2	. 6		
02110918	H10332	3 8	GEORGACTICTACACG	TCCCTATCATGGCTGCTGTT	ŝ	65			3 5		
£1110048	pm0647	: 8	TOTOLICAGICIAGICIAACIC	CAAAIGGICIAAGAGGACAI	3	135		3	. 91		
81601150	4/21md	: 8	COLLIGATION	ATCCTAGICCCAACCCAGIA	97	601					
91001213	pm1235	2 8	GAGGCACATGGATTGATTG	AAA1GTACCCTGGCACCTC	\$2	154		90%	. 8		
510013)	1001	€ 1	AGCCATCTGGTTATGTCTTA	GGAGCAGAAIGAAACTICAC	7	9			3 3	_	_
96(10)36		R	TCCATGGTGTTAGAAGCCAG	CCACATCICCAACAGGGAGT	: 3	3 5		_	3 .	_	_
9(6)(2)	in sud	≂	GTCAGCTCAATGCTACACAG	TTATAGIGCAACACAGAGI	; ;	2 3	^ 761	_	Z	_	
1000		- 2	CTTCTGCTATAAAGTAGAG	ACAATIGGIICACIAAAIGA	; ;	3 ;			28	_	•
	. 216gurd	22	GUTGTAGTGTAACCATTTAG	AGITGCAFCFATOR	2	35		, Ş-	500	_	
	1160ud	22	GGTCTTGTCTCCCATCTGT	AGAAAGGGGGAAAGAAGAAGAAGAAGAAGAAGAAGAAGA	46	≅	124	, 200	200	_	
(119)	pm2231	22	TGAGCTGCACTTACCTGTGAGAG	AAGC 10G 11G COLLEGE	3	08,80	65	90	125	_	
# 001+7#	prii 2) 20	22	TACAGCCCTCCCAGCTAAAC	Transcaulture I GGG I I I G I	2	*	3	3	2	~	
			PLACE I PROMINE IN COLUMN	HIAITCIGCACTACAA	. 9	53	65	8	002	_	

Fig. 9

66600010	97(190	1		:						
67110010	916	< ;	CIGCCATAGITACCIGGAIT	TCACCCACCACTATITAGCA	=	(0)		•	_	-
19110018	6030	≺ ;	GGAGGGGAGATATAGATTGT	AAAAATCCAGAAGACIGA	. 9	2	20 135		95	
910010	1961	≺ >	TICTATAAGTGTGACCAGTT	GGAGGATTIGAGATACACAT	ŝ	ŝ	•		: :	
89110016	Q-17.789	∢ :	TATGCCAGTGAATGTTGCGTAA	GTAAAGGITIATCCITGCATCAGA	~	70			, , ,	
91001136	110110		AICCIGCIGAAATACATCIG	GGGGAGAGACATCACATGAC	. 6	2			2	
2001101	, ((()	1,4,14,11,7	GATCCGATGGGAGTGTAAAT	AAFACAAAGGFAAACCACAA	=	69				
10900018		X,11,41,51,0,6,4,5,1	TIGGAATIGACATTCICIAI	TITATIBLACAAGCAACT	Ç		_			
01 1000 16	and All	1,2,6,X	TATCAAGCTGAAAATGTCAC	Tracigaatceagceaacea	Ş					. ~
91001354	3	01,0,0,0,0	TCCAAATGAAGAAGGTGTTA	AGITGACAGCCAGGTGAATG	=	90	90		901	
91 000136	30,500	22,12,00.7		TITTAFFGFIGCTCCAAGT	2	9	011		95	٠ -
6,0010)		Y,55,05,71,61,51,01,6,0,5		ITATATGGITGITACACICG	\$					
28110018		2,3,14,0	GCCTTGTTATTCACCACTC	ATCICCCTITGCTCCAGTTA	â	~	82 ,2	200	~	• -
£1200018	an 13.4	71,0,7	TCI GAGGACALTCCAAGACAG	CAGICAMACCAACACGGIAI	Ş	20	05 93		091	-
81600018	90000	X,10,01,0,0	TGCAATAAAGGGAAAGACCA	CCGTTGTAGGTGATGAAATG	\$	90		_	500	٠ ~
£0110016	27000	S. S.	GICATTIGIATGCAATTICC	ACATTITITATITITICAACG	2	÷				٠ ~
1 (0000) 1	10 mm	\$1.01.5	CATGTACTCAGAGGCACTTC	GCAACTACAAATCCCAAACT	3	3	54 ((1	200	95-	• •
5,001426	26.36.33	M, b, c	CAGGGACTGGAGCAGGAAAG	GATTIACCCATTAGGAAGC	3	9	101			
16(16):0			Traggaaatatggttagacag	ATAGIAFIGGGYTGACACAGIA	=	9	90 >2		021	
0.0001)	The state of the s	•	TGGATFTGCFFTACCTTQTT	ACACCCICAGGAGATGTTAC	~				90.	• •
1000013	7776	3,9,10,15	GCACTACAAGCCAAATCAGA	CFFCTFACACCAACAGCAG	3			_		- 9
toponis.	P110626	9 .	GGATTICIATTIGCIGICAL	GIFFAFIGIACGCCATFFAC	: =		٠.		2 4	2 '
21210015) () () () () () () () () () (6,20	GCATTAACAGGAACAATA	CIGICCALGIGGCALAACC	: ;					- .
	9090rud	= .~	AGATGCTAACATTAGGGATA	YFIFAGACATACAGAGGAGT	;				•	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ξ.	CCAGACTACAGGCTGATGGC	CCCTTACCCCAGCAACTCTT	37	06 1 20		_	006	• •
1000	21.01.5	9,14	ACCAATGTCACTGCTTCTAAATA	CCCATAATAAGTGAAGAGGTAGTIC	=					
	P21 011d	10,15,22	AAGAAATIGTITACTGGAYT ·	Trateigachiggaggaart	· : 🌫				3	
C.000:5	27144	10,15,22	ACTACCCTGAGATA)TAGFT	TICATITATITGALTAGITGA	•			2		
No.	2 100 July 1	N. I.	ATACCACITCCGCTGTCACG	GAGGAGCGTCYACTGGTCTT	3				900	- 5
order of	Pance 1	61.5	GCACCAAGAAGCAGTICCAG	TGGGAATGAGAAAATAACT	. 5	=				: -
		12:41	GATCTCAGTTCTGCGTTTATT	Tacatacaagatgcaaacagt	\$	3			49	
THE STREET	S 2	91,01	Alfeltatatactrice	GICICICITCIGAIGGCIGA	9	3				
9.6001h	09/2 uzd	9 .71	AACCIGITTACCGCATCIT	AGGITATFIGTCCACCAGAA	=	3		_	162	
gradita)	60160	J'80'C	TGTIGGTICACCATIGAGAC	AGAACAACAICAAAGAIGC	9	3			2	
recomits.	87 / 10g	17,22,Y	GAATGTCATCCAAGACGTAG	CTAGITATATCCIGGCICTG	=				3 6	
giconso	pm0964	2'(1	TITATCCCAGCAAGCACAAC	TCYTCCTCTCACTCTCCTC	=	_			3 5	- :
5000	pu251)	3'(1	ACTIAAAGIAGCITIGIACG	TGCCTCCTGGTCTGATAATA	; ;				•	=
91816	pm1213	2,61	CCCCAGTTANGATTATTGT	AGTGACGATGGAAGGATGTA	; :			6 007	6	-
91001313	11.2	19,20	TGCAGAGIGATITICCCAGAG	COTACCIONACION	=				85	-
80010018	pm2824	19,22	ATCCCTCTGTCTATTCACAC	GCTGC11TAACTCACTTCAC	÷ ;				,	-
201133	(460mg	19,22	GCCIGCAICIGIGACAT	AACTERSON	9 :	_	_		2 0/1	~
				ANCETCINGUAACAMICAI	=	5	by 160		-	-

Fig. 10

	Pui 20 45										
8100013	13(10/0		AGGACACACACCAGCTAT	TITCIGATTATGACATGAC	45	*	*	ş	2	-	
91601086	ALCCINO	z :	AICICITIGIAGCCAICCIG	GTTAAAGTGCTGATGCCATT	Ç	97 100	: 3		: ?		
64001166	2000	z	GTAGAGCTGCATTGACTACC	ACAGACAAGGAATAATCATA	: :		5	9	3	_	_
2000	200	z	GICCACAGICCAGCCIAAC	With the second	¥	96.	2	2	=	_	_
	Pan 2354	Z	TGICDIGIGACTATA	TITLE OF THE PRINCIPLE	\$	Ξ	~	Z	200	_	_
BI GALLER	Pen 2402	11,0		I I AACAGI CAATAAATACATG FI	7	9	91	2	901	_	_
81620253	Pan 2 3 0 6	2.13	CLIALANAGAGGGACICA	CITAACTCGATAGCCAGGIC	9	32	2	5	:		
9,000165	Cm1304		CALAAAACAGCAAACTICAG	ATGGTTATITATCADATTO	=	9	3	2	: 6		. ,
81000303	0412110	ָּבְּרָ בּבְּרָ	ICCACCCAGAGCACACT	AAITCAFAGGGAATAGGITC	97	05.130	, ,	; ;	; ;		, ,
010000543		2	TCGAGAAGGACAAA1CACC	GAACAGGGTTAGICCATICG	: 5		2 3	: :	2 :	~	_
0.000	angle d	3 .	CATGAGGCTACGGAAACAGG	AGGAGTCCGTGGGTCTTAAG	2 ;	₹ :	2	2	9 5	_	_
60000	Pro 1 442	Mic	AAAGCATCITGAGAAGA		~	=	.	3	•	-	13
\$1/mm\8	Pul 152	M,C	GCAGCAGATACCTITACACC		Ş	110, 200	0	2	9	_	a
91 000395	Pn:0260	N,C	GAAGCTCTTGTGAGGAAACT	Indi Itali Itali Itali	3	102	105	701	701	_	_
9100018	pm2783	717		CAGACCCCATCITITATACC	7	2	9	2	79	~	-
81001331	Paul 144	2 3	ACATA COLOR OF THE MAIL GAIGIG	TCAAAACTTFAATATAGGT	ę	ຣ	G	5	92	_	
(2110)	19112290	2 2	AUALIGICICAGAGA	CCATTCCIGICALICCAGUL	25	50	3	135			
41601167	2011	ָ :	ACIGGIGATGGAAGGITACA	CCACAGIGAGCACCGICI	7	3		¥	: :		
61601216	0291111	2,5	GAGAGCCCTFGCATCCTFTA	CTCCCTAGGTCTTCTGT	: \$: 3		; ;	2	_	_
	80124H	NIC NIC	TAGTCAGAGATICAGTAAGT	ACATGTAILTGGALAGIC	;	3 :		3	3	_	_
	pm1210	1.0	AAC1GGTfcca1caAgac1G	AGIGAATAAACICKAATAA	¥ :	2		2	9	_	~
\$100,000	Pm1131	Mic	ACTTAAAAACCCACCAGCAT	ACANTAGE ACTUAL INC.	2	25	_	22	2	_	_
\$6003	Pn:0952	M,C	AAGAGGAGTEECEVGETCA	ALMICAULAUICAATAUAA	\$	à	7	3	6	_	_
9,021356	Pm2216	N,C	ATCIOCATOACCEA	AFFATERCAUGICAAGGA	3	ŝ	69	2	3	_	_
11117018	P+110950	N.	ATOOCTAATOOCTA	CGIICICITITATITGACAT	\$	201	901	<u>s</u>	001	_	_
6,601,60	Pr112626	. T		GAGACCAAAGGCACTTCTTA	\$	3	=	2	8	_	_
916011402	0.010	ב ב	ACALIGAAIGGGGAIGAGGI	GGACATITCTAGCCCACAGC	3	75,55	2	2	\$ 2		
31121	601040	E. :	I I I I I I I I I I I I I I I I I I I	CAGTGCCTCTGTACTGAGACA	2	\$0	65	50	: 2		
9,633160	2000	֝֞֝֞֝֝֞֝֝֝֓֓֓֓֝֝֝֓֓֓֓֝֝֞֝֝֞֝֝	UCCACAGAGACATCATCCT	TCYTAGTAGGTGCTCTGGTG	<u>~</u>	3	200	9			
6,000250	1000	rio product	CAACCAGTTAGCGTGAAAGT	GAATAICCIIGICAICIA	45	00	6	٠	} .		
8100K961	100000	No product	CITTGGGATATTTCTTCAT	CCCTCGGGTACTTTCTATG	Ç	3	9				
9(6)135	00000	No prochoci	AGCCAGCCICTITATATATA	CTGGATT/GAT/TCA1/TAG	7	2	2	;	. :	-	•
37100:0	Colum	the product	TGIGGIAIGAAAIAICIGA	Tratgaatgaagacact	: =		3 8	. ;	¥ ;	_	_
cerima	Dur 2000	113 preduct	CAGTAGTGTGCTTTGAAATG	TITATGIGAAATGTGA	; :	2	3	69	8	_	_
6(613)3	Pm0361	He product	TACAGCGCTTCTAAAAGTC	171646641C4A04A4	= :	G	G		3	-	_
9001356	pred049	No product	TACATTCITCAGACTCATCA		₹	85	62		280	_	_
1621691	pm1281	He product	AICAGAGCICAGITACTA	ATTENDAMENT OF THE PROPERTY OF	ç	9	99	\$ 200	8	_	_
91001622	Prn1606	Ho product	GATCHGAGCCHAACIGGA	Wife was a second of the secon	3	s	15	~	19	~	~
91001610	pri10852	No makes	CATCACATCACATCACACACACACACACACACACACACA	I I I CAUCI I LATIC	\$. ,	3			_	_
			MICHIELLE	TITATACAGACACCATAC	2	45	\$			_	

Fig. 11

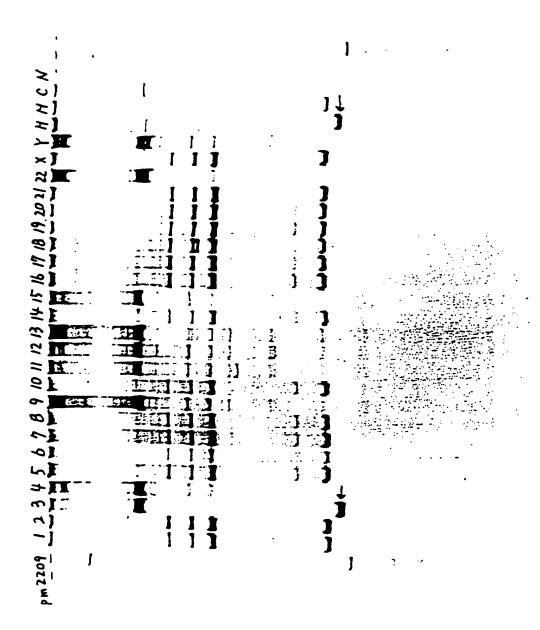


Fig. 12

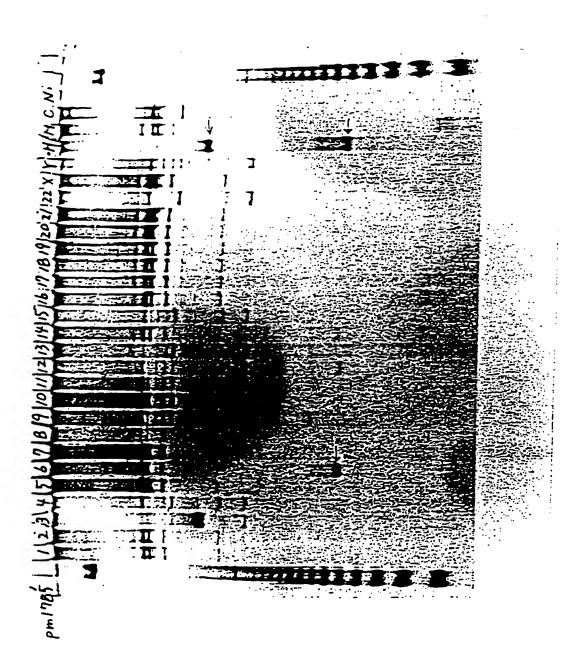


Fig. 13

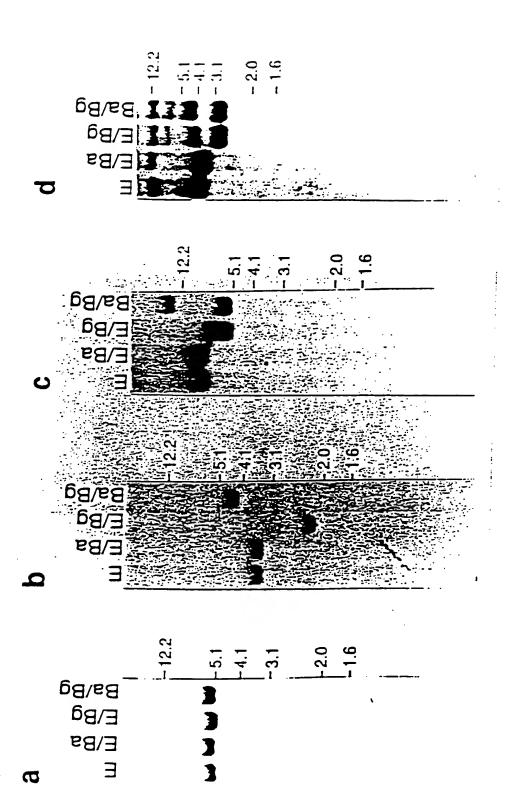


Fig. 14

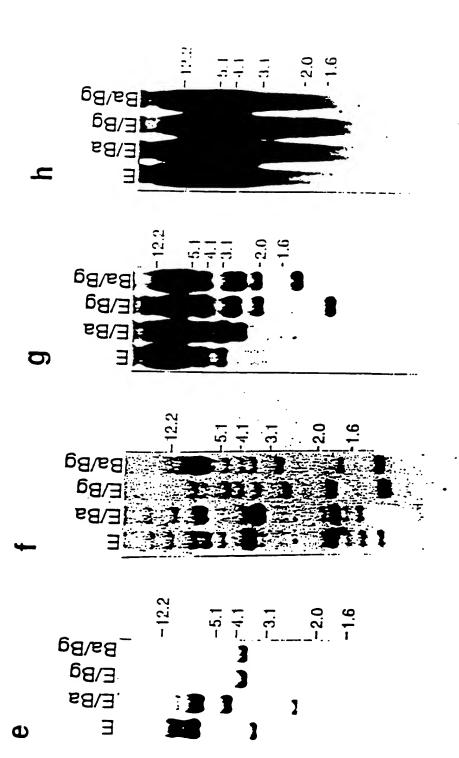
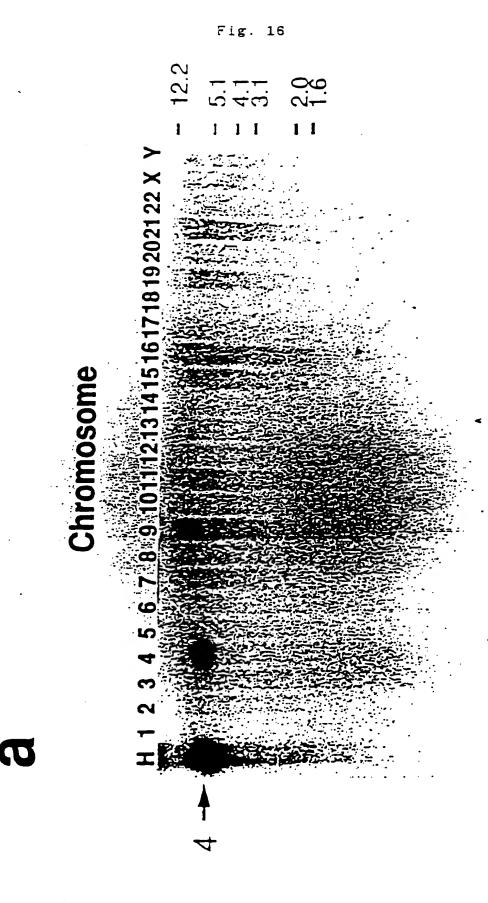
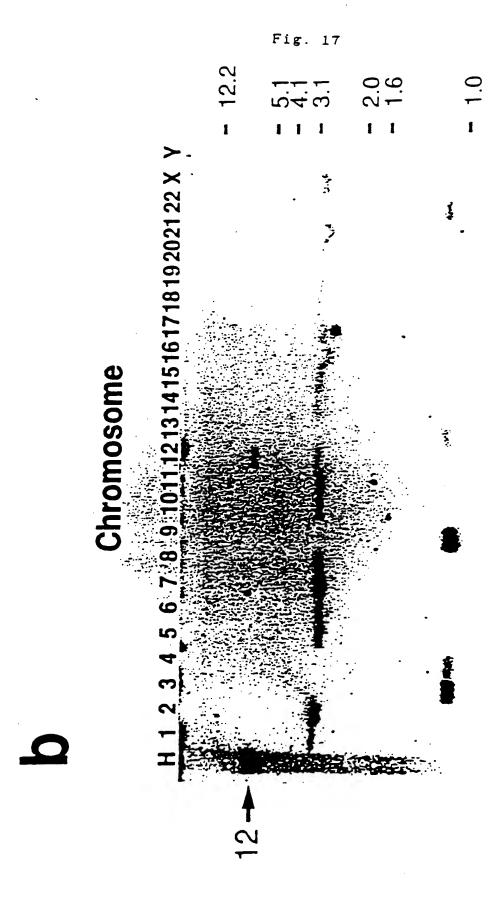


Fig. 15

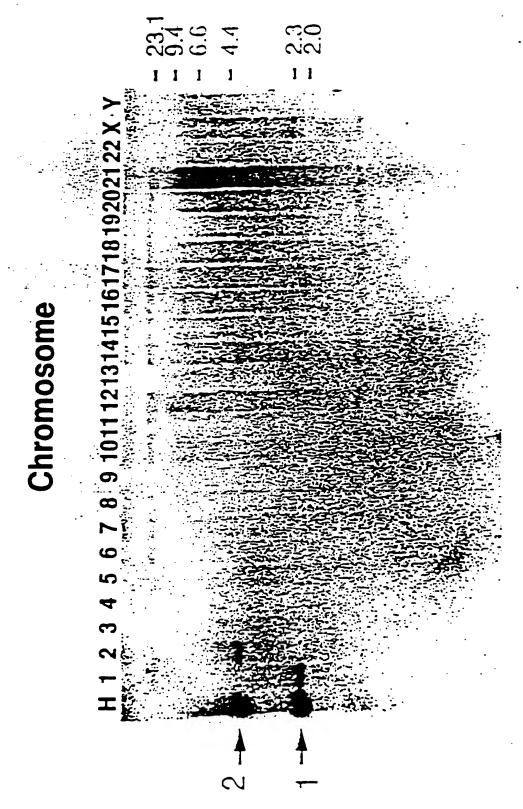
Hybrid cells used for Southern hybridization

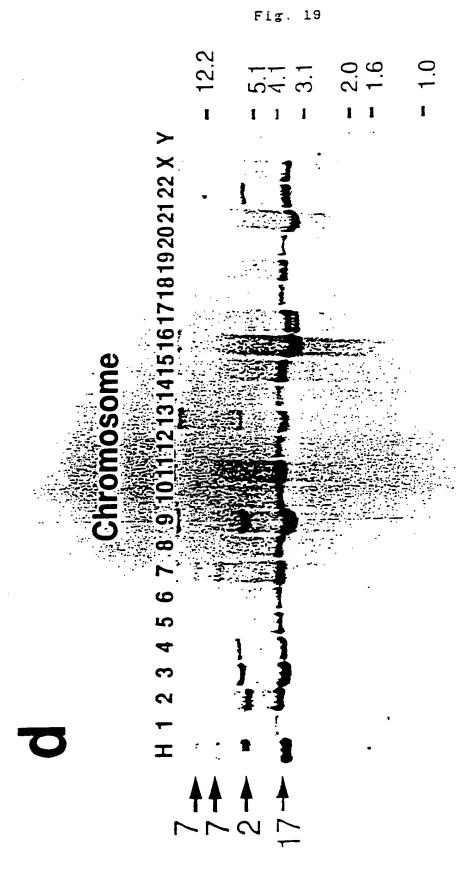
	Human romosome	Parent o	Intact chromosome (%)	Translocated chromosome (%):
A9(neo-!)-	4 [A 9	:00 (G)	S
A9(neo-2)-	! 2	A 9	93 (8)	0
GM10253	3	CHO	100 (0)	C
CHIOIIS	4	CHO	100 (0)	0
A9(neo-5)-4	£ 5	<u>.</u> 4 9	40 (0)	90 :
A9(nec-6)-3	6	. 9	100 (60)	0
A9(neo-7)-3	2 7	A 9	100 (89)	0
A9(neo-8)-1	. 8	A 9	91 (82)	0
GM 106!!	9	CHO	79 (5)	1 1
A9(neo-10)-	-3 10	A 9	94 (6)	75
A9(neo-11)-	- ! I I	A 9	24 (0)	76
GM10927A		CHO	96 (21)	Ą
A9(neo-12)-	4 !2	A 9	0 (0)	100
GM10868 -	12	CHO	82 (6)	0
GM 10898	13	CHO	82 (0)	10
GM10479	[4	376	76 (29)	G
A9(neo-15)-	2 15	A 9	9 (0)	78
GM1!416 °	15	CHO	62 (0)	100
GM 10567	16	A 9	69 (0)	0
GM10498	17	LTMK	30 (10)	0
A9(neo-18)-	5 18	A 9	100 (66)	0
A9(neo-19)-	1 19	A 9	92 (23)	\$
A 9 (neo-20)-	3 20	A 9	81 (5)	ι 7
GM08854	2!	A 9	31 (24)	0
GM 10027	22	CHO	93 (0)	100
GM10324	х	A 9	81 (10)	0
GM06317	Y	CHWIII	91 (0)	9











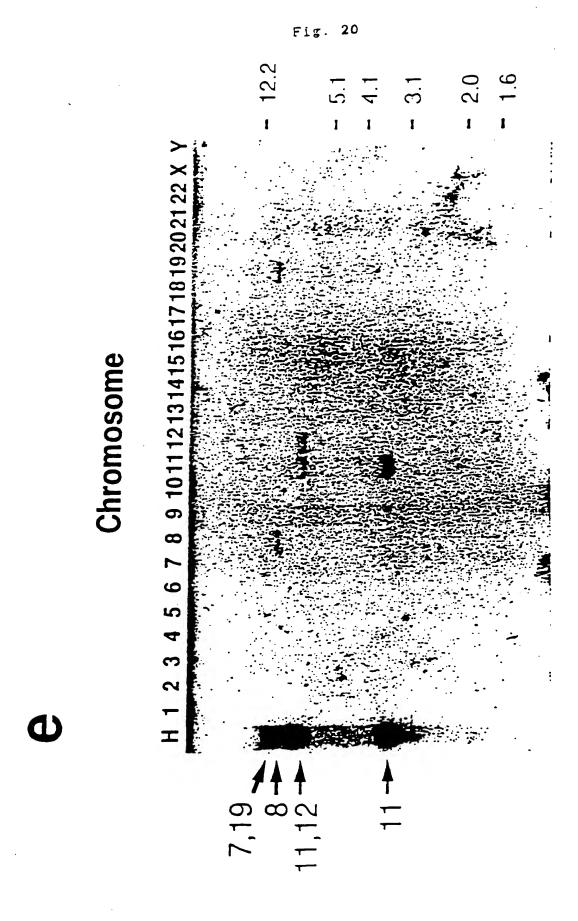
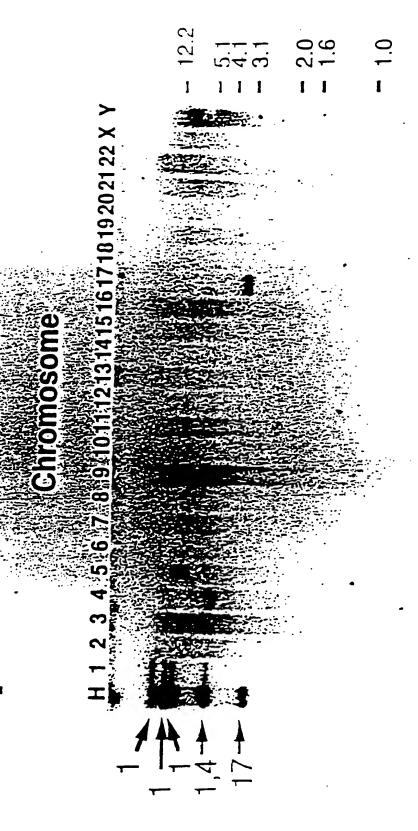


Fig. 21





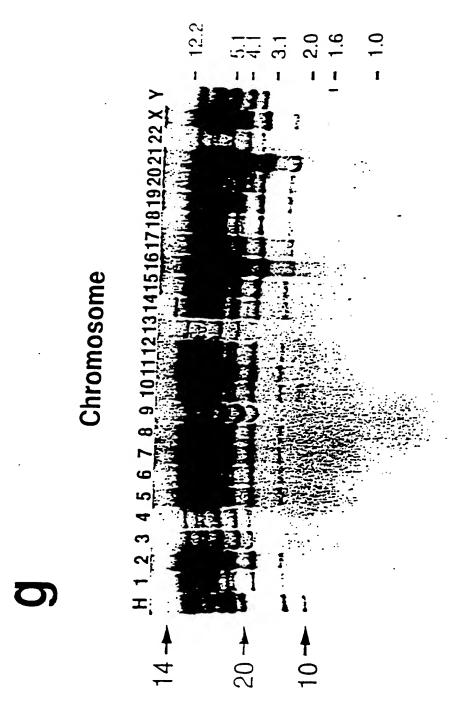


Fig. 23
Chromosomal mapping of each GS by Southern blot technique

Numbers with hum	of band an whol	is det e chro	ecte	d omes	•		Chromosomes assigned	Bacl	kground
Clone		Sequen lengt	ice			ç 3 2/3 ç	·	Mouse	Chinese
Single ban	d group		,						
e!Zeli	G300073		1	1	t	ı	9	٥	0
c!Ic06	GS00062	5 ±0	1	:	1	i	4.15	٥	o
c!2;0i	C2000330	2!2	i	i	i	i	2	1	!
c13c95	G300117	359	i	i	i	i	! ! -	o	0
c:3c07	C2000120	355		:	i	į	2	Ċ	o ·
e13f10	G3000296	257	i	·	i	i	₹ +	o	0
	C2000518	133	1	ı	i	:	12-	ā	ō
ci3h01			-	ı	i	i	á	ě	ō
el3hC2	G5000322	167	ı	-		i	3	ā	ā
403G2	G\$\$\$\$\$\$\$\$\$	397	ı	Ĺ	i	-	11	!	i
401.07	C2:00319 C2:00131	313	I	1	Į.	i ·	20	à	ò
41510		153	Į,	i .	!	:	در 14	a	ā
	C2000153	246	l	Į.	(i t	-: [٥	<u>.</u>
hm0lc09		157	0	į.	I L	t	17	Ċ	ō
hm0!c!2	•	394	Į,		ı.	. [-	19.22	. 0	ō
h=01 (0 S	•	454	l C		ī	Į.	10	. 0	ō
h.m01 (10		173	0	l			6	ā	ō
_	GS000033	477	1	į	i	t	1.2	ā	ā
	CZ000112	363	Ĩ	Į	l	1	4	o	0
	C2000 (30	3 ∸ ∸	I	į	!	l -			
	CS300529	164	ı	I.	0	0	10	0	0
ba.02≈0 l	G300293	271	Ţ	!	i	Ţ	1.5	0	0
à02c0 t		590	ī	I	ı	I	20	0	0
tmC2±02	G300G342	155	0	ι	i	1	1 4	0	0
bm02=05		223	ŧ	i	0	0	n.1.	0	0
hm02;02	C2300f3f	273	I	ı	1	i	17	0	o
hm05=05	GSG0025L	219	E.	1	i	t	á ·	2	0
5,005410	junk	392	l	ı	ı	!	L	t	I
hm05c10	GSC00009	606	t	ī	1	t	l	a	o
km<01	junk	169	ŧ	t	t	0.	n.d.	٥	0
1105	C2000001	703	t	i	1	1	5	O	0
2110	G300057	471	ι	ı	Ŀ	t	\$	0	0
slldil	G\$000307	#175	0	٥	a	Į	7	a	0
sithCt	G\$000253	204	τ	t	1	t	3	0	0
s147	C300060	461	Ł	t	Į.	G	1 '	a	O .
s 1 4e 0 6	žaui,	639	t	ı	ι	t	t	0	a
114gG2	CS30G L52	322	ι	l	ı	ι	4	0	0
s14h12	G3000271	193	ı	ı	ı	t	÷	1	Ł
:150	G5000 (43	330	i	i	1	t	17	0	0
\$156	C3000002	306	i	ì	t	ı	2	t	t
sisbii	C2000350	221	i	t	í	ı	14	0	O
:179	G5000275	196	i	i	i	t	a.d.	σ	٥
:210	G3300224	241	i	i	i	i	7	ō	ā
:247	C3000347	153	i	i	i	i	(Ō	ā
:270	junk	135	i	i	i	ì	19	ō	å ·

F1g. 24

Number with h	Numbers of bands detected with human whole chromosomes							Background		
Clone	equence			. E/3	g 31/3g		Mouse	Chinese hamster		
8306	CZJOOZSG	203			0	t	×	0	Q	
s209	GSGGGLTL	305	i	t	. a	ı	I	0 ~	a	
8342	G3000272	165	i	i	i	1	٠.	3	2	
233 L	G3000255	207	i	i	ā	1	6.15	ı	1	
833. 8334	C3000163	312	i	ì	i	i	ī	O	G	
x337	C3300276	195	i	i	i	ι	17	O	0	
x339	G3000295	130	ì	i	i	ί	n.d.	a	ı	
544J	GE000220	251	I	i	ī	i	a.d.	0	0	
	iunk	251	1	i.	i	i	17	a	a	
8470	•			•	i	i	3	ā	a	
8476	€5300192 iunk	27.3	1	t -	1	i ·	1.2	å	ā	
2503	-	312	1	1	-		I.	2	ı	
8507	inni	600	1	1	I	I	1.4	ī	i	
8517	C2000331	161	1	I	1	Į.	2	à	ō	
8632	zant.	337	t	ı	I	1	2.1 2.1	2	t	
8633	ೞಾಂ೯೯ <u>೯</u> .	311	t	1	ŧ	ı		i	i	
8430	C230001	644	ı	t	I	l.	12	à	à	
	4 G000025	537 •	I	ı	I	1 .	3.7	a	0	
1-143	8 c2300518	255	Į	ι	I	1	1.7	_	-	
c = i − 3	z junk	250	I	ι	1	1	5	0	0 .	
	7 65300237	235	t	t	ľ	t	22	0	0	
[m [-4	z junk	391	i	t	t	i	8	1	1	
(w L - 4	3 62000038	173	i	•	I	1	1 4	0	0	
t ≈ 1 - 9	@ C2300F33	339	1	1	1	I	1.1	0	O	
Two band										
6!201		277	ι	2	2	2	t,	L	1	
c!3d0	2 GS300042	503	2	2	i	i	2.	0	0	
hm0 t	06 CS300129	344	2	2	2	2	21,11	3	· 5	
km01:	a07 C3000207	259	2	2	2	2	7,	0	0	
******	40 5 GS300232	243	2	2	2	t	2,	0	0	
******	1210000131	292	2	2	2	2	1.2	o	C	
	708 CZ300432	302	2	2	2	2	3.	1	ī	
	:04 CSJ00221	253	2	2	2	2	3.	O	0	
	05 CS300146	132	2	2	2	2	17,19,22	٥	a	
			i	1 .	2	1	3.	ō	0	
	707 03000043	303	-	-		2	11.12	ō	o	
81140		205	2	2	.2	_	6.	0	ō	
gligi		255	2	2	2	2	•	i	ı	
8126	C2300088	404	2	Z	2	2	9.	0	ò	
8142	G3000132	342	i	2	2.	2	1.7		2	
814(03		243	1	2	2	2	2,	3	0	
s i Se O ?		439	2	2	1	2	€.	0	-	
816509	junk	420	ı	ι	t	2	10.14	0	0	
s17c09		223	2	2	2	2	14.	0	0	
s 2 3 t	junk	284	2	2	2	2	11,	0	0	
2234	C2000 F34	353	2	2	2	2	ι,	3	1	
8253	C2000235	239	2	2	2	2	11,	٥	0	
\$272	junk	195	2	2	2	2	10.16	t	<u> </u>	

F1g._25

_	#311 #313 #317 #336	S (©30009 junk	equent leng								
	#313 #317		2 33		€	E/8:	: £/9	3 5 3 2 / 3 5	<u> </u>	Mouse	Chinese hamste
	\$317	junk		3	ı	ı	2		16.	Į.	
	-		13:	2	2	2	t	0	20.	o	a
	2336	ದಾಯಣ	3 339	9	0	0	t	2	14.14	1	ŧ
		C2300 L3-	337	7	2	Z	2	2	12.14	O	0
	:333	C20C013	3 23:	3	2	2	2	t	22.X	a	o
	1339	C300025	3 737	;	2	t	Į.	2	17.	o	O.
	1394	ಡು000€:	3 449	•	2	ı	2	2	13.14	0	σ
	1396 .	junk	277	•	2	2	2	2	17.	o	t
	1455	junk	452	<u>.</u>	£	2	2	į	4,	O	a
	:456	C2000236	132	: :	2	2	2	2	8,10	Ł	2
	:465	G300201	274		l	ı	2	2	6,15	a	a
	2635	junk	250	1	1	ı	L	2	9.13	a	a
	1639	G5300257	205	1	!	2	2	2	2.X	٥	0
	1656	G3100025	#590	2	2	2	O	2	6,11	0	0
	(wl-33	junk	352	2	1	2	2	2	ı,	0	a
	(~ [-39	CS300 L53		. 2		2	2	2	17.	o	Q
	twl-70	ದಾಯಯ (441	I		I	2	1	II.	O	0
	1 - 80	junx	453	2		2	1	2	9,17	2	2
	tw1-87	CZ000129	316	2		2	2	2	7,	0	a
Thr	ee pand	group									
•	40706	C2000030	417	3		3	3	t	1.	0	0
	hm05607	7 junk	336	2		3	3	3	5.	0	0.
	hm05g02	CS000209	267	2		2	2	1	3,17,19	t	1
	£129	CS000L0T	378	3		3	3	3	a.d.	ı	1
	s 1 7 3	G\$300257	146	ι		2	2	3	2,	o	0
	117:10	C3000294	131	3		3	3	3	2.13.22	ī	1
	±308	GS000412	633	2	:	2.	2	3 .	XX	i	1
	3401	GS000224	249	2		3	3	3	6,5.	à	a
	1654	G3000045	491	3		1	3	3	1.22.	ō	Ō
	t#1-82	GS00020a	257	3	3	_	3	3	13.	4	å
Four	band g			-	•	•	•	•	13.	•	J
	c12:07	GS000154	320	4	4		2	3	5, 14,	a	0
	c13a08	C5000055	508	3	3		4	4	2.7.7.17	i	2
	c13c04		#376	4	3		3	3	a.r., r. r	o .	2
	c13e09	CS000302	195	4	2		4	4	2.17.	7	1
	:136	CZGGGTCG	315	4	4		4	4	4.%	2	i
	1163	-	#618	4	4		4	z	4.4.8.20	3	1
	£479	C2000130	293	4	4		2	2	7,5,11,11,12,19	0	a
		or more			•		- .	-	7,3,11,11,12,19	U	U
_		G3000253	217	.s 5	5		5	2	17014	2 .	•
	bcOl	iunk	374	12			3 5	13	2,7.9.14,	_	0
	hd 10	junx junk	361	4	4		4	-	1,2,6,		20
	hela		173	6				8	a.d.	12	6
	-		-	-	7		3	3	6,3,9,19,21,	3	3
			176	9	-		S	5	×	9	8
		•	215 411	8 9	l a		S S	5	n.d. [0.14.20,	12	12.

Fig. 26

Numbers with hu	Numbers of bands detected with human whole chromosomes							Background	
Clone	S	equen lengt	μ Ξ	E/3:	1 E/3	g 3 1/3 g		Mouse	Chinese hamster
hm02/09	G300273	442	3	7	7	5	3.3.6.11.13.14.15.16	0	0
h:::05±03	CZ300096	373	3	G	4	6	2.3.17.	3	3
hm05±04	C300238	2239	6	á	6	7	a.d.	8	5
km50 t	junk	. 350	3	5	5	5	13.	[4	7
\$11f06	C2000312	170	6	á	6	۵. ٠	1.2.2.3.4.6.13.15.	a	3
101-12	<u>ದ್ವಾಂಚರಿಗ</u>	252	12	11	1.0	9 .	1.5.9.13.	5	3
s!73	₩2000681	397	5	£	5.	3	1,1,1,1,4,17	ā	ā
\$255	G5000323	157	10	12	1.1	14	13.	9	5
334[junk	494	9	9	3	á	a.4.	1.5	3
240á	C2500173	364	5	7	5	4	2.7.3.13.20.20	4	ī
6-1-46	iunk	593	9	10	10	10	1,1,2,2,5,11,%,	3	5
[6-103	junk	203	3	10	10	12	3.4.	17	1.1
Bands no de									
cllgCl	ದ್ರಾ003₹0	157	0	g	a	٥	•	•	•
hm0le10	junk	232	a	0	٥	0	•	-	•
hm02411	CS000274	196	0	0	0	a	•	-	-
8323	G\$000273	194	0	a	O	a	-	-	-
8359	C2000 F 3 3	279	0	O	0	0	-	-	•
25!!	xnu i	233	0	0	0	0	•	-	•
s645	G300012	0734	0	0	0	0	•		-
s 5 4 7	CZ3G0L35	360	a	ō	ō	ā	•		-
£65 t	junk	5±0	a	a	a	٥	-	-	•

International application No.

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PCT/JP94/01916				
	ASSIFICATION OF SUBJECT MATTER			
Int. Cl6 C12N15/11, C12Q1/68//G01N33/566				
	g to International Patent Classification (IPC) or to both national classifica	tion and IPC		
	ELDS SEARCHED			
	documentation searched (classification system followed by classification symb	•		
11	nt. Cl ⁶ Cl2N15/11, Cl2Q1/68//G01N33/5	66		
Document	stion searched other than minimum documentation to the extent that such docu	ments are included in t	he fields searched	
Electronic	data base consulted during the international search (name of data base and, wh	ere practicable, search	terms used)	
BIOS	SIS PREVIEWS, CAS ONLINE			
c poct	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the re-	levant passages	Relevant to claim No	
х	Nucleic Acids. Res., Vol. 15, 1987, Coning and characterization of a high ribosomal protein gene with enhanced in fetal and neoplastic cells p. 89	man expression	1-6 (164)	
x	Differntiatios, Vol. 33, 1986, Oshima et al. "Comparison of mouse and human keraticomponent of intermediate filaments of prior to implantation" p. 61-68	n 18:A	1-6 (226)	
x	J. Biol. Chem., Vol. 265, 1990, Wilki et al. "Isolation and sequence of the human pyrophosphate synthetase cDNA:coordin regulation of the mRNAs for farnesyl pyrophosphate synthetase, 3-hydroxy-3 methylglutaryl coenzyme A reductase, hydroxy-3-methylglutaryl coenzyme A sp. 4607-4614	farnesyl ate - and 3-	1-6 (255)	
Further	r documents are listed in the continuation of Box C. See pater	nt family annex.		
document to be of	at defining the general state of the art which is not considered the principle of the principle of	conflict with the applica r theory underlying the i		
"document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other				
special reason (as specified) document referring to an oral disclosure, use, exhibition or other means the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.				
the priority date claimed "&" document member of the same patent family				
report February 6, 1995 (06. 02. 95) Date of mailing of the international search report March 7, 1995 (07. 03. 95)				
me and mailing address of the ISA/ Authorized officer				
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International application No.
PCT/JP94/01916

		PCT/JI	294/01916		
C (Contin	C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category®	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
х	J. Biol. Chem., Vol. 266, 1991, Batra, et al. "Molecular cloning and sequence analys the human ribosomal protein S16" p. 6830-6833		1-6 (275)		
x	Proc. Natl. Acad. Sci. U.S.A., Vol. 87. Ben-Ishai, R. et al. "A human cellular-sequence implicated in oncogene activation is DNA damage induce p. 6039-6043	in trk	1-6 (313)		
x	J. Biol. Chem., Vol. 263, 1988, Fischer et al. "Multiple divergent mRNAs code for a si human calmodulin" p. 17055-17062	1	1-6 (386)		
х	J. Cell Biol., Vol. 108, 1989, Barnett, et al. "Carcinoembryonic antigens: Alternative splicing accounts for the multiple mRNA code for novel members of the carcinoem antigen family" p. 267-276	s that	1-6 (446)		
х	J. Biol. Chem., Vol. 265, 1990, Natsume et al. "Two distinct cDNAs for human IMP dehydrogenase" p. 5292-5295	da, Y.	1-6 (454)		
	Genes Dev., Vol. 7, 1993, Patton, J. G. "Cloning and characterization of PSF a pre-mRNA splicing factor" p. 393-406	et al. novel	1-6 (706)		
	Nucleic Acids Res., Vol. 16, 1988, Stand D. R. et al. "The complete primary structure of the banks of the ban	ł	1-6 (711)		
	Proc. Natl. Acad. Sci. U.S.A., Vol. 84, Inoue, C. et al. "Evolutionary conservation of the insuli gene rig and its possible function" p. 6659-6662		1-6 (723)		
;	J. Immunol., Vol. 144, 1990, Jongstra-Bi J. et al. 'Human and mouse LSP1 genes code for hig conserved phosphoproteins" p. 1104-1110	i	1-6 (741)		
1 "	Biochem. J., Vol. 248, 1987, Sakai, I. e The cDNA and protein sequences of human actate dehydrogenase-B" p. 933-936	t al.	1-6 (772)		

International application No.
PCT/JP94/01916

		PCT/JP	94/01916
C (Contin	untion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category®	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
х	Biochim. Bioiphys. Acta., Vol. 1089, 1 Tamura, T. et al. "Molecular cloning and sequence analys cDNAs for five major subunits of human proteasomes (multicatalytic proteinase complexes)" p. 95-102	is of	1-6 (775)
x	Mol. Cell. Bicl., Vol. 3, 1983, Cowan, et al. "Expression of human alpha-tubulin gene interspecies conservation of 3' untrans regions" p. 1738-1745	es:	1-6 (820)
x	Nucleic Acids Res., Vol. 17, 1989, Taam J. W. et al. "Nucleotide sequence of cDNA encoding s VIb of human cytochrome c oxidase" p. 1766-1766	1	1-6 (844)
x	Gene, Vol. 93, 1990 Taanman, J. W., Schrage, C., Ponne, N., A., Bolhuis, P. A., de Vries, H. and Agsteribbe, E. Isolation of cDNAs encod Subunit VIb of human cytochrome c oxida steady-state levels of coxVIb mRNA in d different tissues p. 285-291	ing se and	1-6 (844)
х	J. Biol. Chem., Vol. 264, 1989, Gray, Pal. "Cloning of the cDNA of a human neutropibactericidal protein:Structural and functorrelations" p. 9505-9509	hil	1-6 (861)
	Immunogenetics, Vol. 32, 1990, Angelison P. et al. "The human leucocyte surface antigen CDS a protein structurally similar to the CI and MRC OX-44 antigens" p. 281-285	53 is	1-6 (1158)
	Proc. Natl. Acad. Sci. U.S.A., Vol. 88, Koken, M. H. et al. "Structural and functional conservation two human homologs of the yeast DNA repa gene RAD6" p. 8865-8869	of	1-6 (1181)
ļ.	Oncogene, Vol. 5, 1990, Firmbach-Kraft, al. Tyk 2, prototype of a novel class of no receptor tyrosine Kinase genes" p. 1329-	n-	1-6 (1345)
ď	Science, Vol. 248, 1990, Smith, C. A. et 'A receptor for human tumor necrosis fac lifines an unusual family of cellular an viral proteins" p. 1019-1023	tor	1-6 (1431)

International application No.
PCT/JP94/01916

C (Contin	C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category®	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	J. Biol. Chem., Vol. 263, 1988, Luster, A. D. et al. "Molecular and biochemical characterization of a novel gamma-interferon-inducible proteir p. 12036-12043	(1455)		
х	J. Clin. Invest., Vol. 83, 1989, Look, A. T. et al. "The human myeloid plasma membrane glycoprote CD13 (gp150) is identical to aminopeptidase N" p. 1299-1307	1-6 (1469)		
x	J. Cell Biol., Vol. 105, 1987, Argraves, W. Set al. "Amino Acid Sequence of the Human Fibronectin Receptor" p. 1183-1190	(1607)		
x	Nucleic Acids Res., Vol. 18, 1990, Liebhaber, S. A. et al. "Characterization of a human cDNA encoding a widely expressed and highly conserved cystein rich protein with an unusual zinc-finger motif" p. 3871-3879	(1642)		
x	J. Biol. Chem., Vol. 264, 1989, Didsbury, J. et al. "Rac, a novel ras-related family of proteins that are bolulinum toxin substrates" p. 16378-16382	1-6 (1709)		
х	EMBO J., Vol. 6, 1987, Willison, K. et al. "The human homologue of the mouse t-complex gene, TCPl, is located on chromosome 6 but is not near the HLA region" p. 1967-1974	1-6 (1749)		
x	J. Biol. Chem., Vol. 266, 1991, Wu, Y. et al. "Activation of globin gene expression by cDNAs from induced K562 cells: Evidence for involvement of ferritin in globin gene expression" p. 17566-17572	1-6 (1785)		
	Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ikuta, T. et al "Three human alcohol dehydrogenase subunits: cDNA structure and molecular and evolutionary divergence" p. 634-638	1-6 (1864)		
	Proc. Natl. Acad. Sci. U.S.A., Vol. 85, 1988, Fukumoto, H. et al "Sequence, tissue distribution, and chromosomal localization of mRNA encoding a human glucose transporter-like protein" p. 5434-5438	1-6 (1878)		

International application No.
PCT/JP94/01916

X J. Clin. Invest., Vol. 76, 1985, Cooke, N.E. et al. "Serum vitamin D-binding protein is a third member of the albumin and alpha fetoprotein gene family" p. 2420-2424 X J. Biol. Chem., Vol. 264, 1989, Huang, SH. et al. "Human deoxycytidine kinase: Sequence of cDNA clones and analysis of expression in cell lines with and without enzyme activity" p. 14762-14768 X J. Biol. Chem., Vol. 266, 1991, Huang, SH. et al. "Additions and corrections Human deoxytidine kinase. Sequence of cDNA clones and analysis of expression in cell lines with and without anzyme activity" p. 5353-5353 X Somat. Cell Mol. Genet., Vol. 11, 1985, Bell, G.I. et al. "Human alpha-2-macroglobulin gene is located on chromosome 12" p. 285-289 X Proc. Natl. Acad. Sci. U.S.A., Vol. 81, 1984, Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-l acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. 1-6			PCT/JP9	4/01916
X J. Clin. Invest., Vol. 76, 1985, Cooke, N.E. et al. "Serum vitamin D-binding protein is a third member of the albumin and alpha fetoprotein gene family" p. 2420-2424 X J. Biol. Chem., Vol. 264, 1989, Huang, SH. et al. "Human deoxycytidine kinase: Sequence of cDNA clones and analysis of expression in cell lines with and without enzyme activity" p. 14762-14768 X J. Biol. Chem., Vol. 266, 1991, Huang, SH. et al. "Additions and corrections Human deoxytidine kinase. Sequence of cDNA clones and analysis of expression in cell lines with and without anzyme activity" p. 5353-5353 X Somat. Cell Mol. Genet., Vol. 11, 1985, Bell, G.I. et al. "Human alpha-2-macroglobulin gene is located on chromosome 12" p. 285-289 X Proc. Natl. Acad. Sci. U.S.A., Vol. 81, 1984, Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	C (Continu	ution). DOCUMENTS CONSIDERED TO BE RELEVANT		
et al. "Serum vitamin D-binding protein is a third member of the albumin and alpha fetoprotein gene family" p. 2420-2424 X J. Biol. Chem., Vol. 264, 1989, Huang, SH. et al. "Human deoxycytidine kinase: Sequence of cDNA clones and analysis of expression in cell lines with and without enzyme activity" p. 14762-14768 X J. Biol. Chem., Vol. 266, 1991, Huang, SH. et al. "Additions and corrections Human deoxytidine kinase. Sequence of cDNA clones and analysis of expression in cell lines with and without anzyme activity" p. 5353-5353 X Somat. Cell Mol. Genet., Vol. 11, 1985, Bell, G.I. et al. "Human alpha-2-macroglobulin gene is located on chromosome 12" p. 285-289 X Proc. Natl. Acad. Sci. U.S.A., Vol. 81, 1984, Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al. "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	Category*	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
#Human deoxycytidine kinase: Sequence of cDNA clones and analysis of expression in cell lines with and without enzyme activity" p. 14762-14768 X J. Biol. Chem., Vol. 266, 1991, Huang, SH. et al. "Additions and corrections Human deoxytidine kinase. Sequence of cDNA clones and analysis of expression in cell lines with and without anzyme activity" p. 5353-5353 X Somat. Cell Mol. Genet., Vol. 11, 1985, Bell, G.I. et al. "Human alpha-2-macroglobulin gene is located on chromosome 12" p. 285-289 X Proc. Natl. Acad. Sci. U.S.A., Vol. 81, 1984, Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L.: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kpa	х	et al. "Serum vitamin D-binding protein is a member of the albumin and alpha fetops	third	1-6 (1888)
## additions and corrections Human deoxytidine kinase. Sequence of cDNA clones and analysis of expression in cell lines with and without anzyme activity" p. 5353-5353 X Somat. Cell Mol. Genet., Vol. 11, 1985, Bell, G.I. et al. "Human alpha-2-macroglobulin gene is located on chromosome 12" p. 285-289 X Proc. Natl. Acad. Sci. U.S.A., Vol. 81, 1984, Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	x	et al. "Human deoxycytidine kinase: Sequence clones and analysis of expression in clines with and without enzyme activity	of cDNA	1-6 (1894)
G.I. et al. "Human alpha-2-macroglobulin gene is located on chromosome 12" p. 285-289 X Proc. Natl. Acad. Sci. U.S.A., Vol. 81, 1984, Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	х	et al. "Additions and corrections Human deoxy kinase. Sequence of cDNA clones and a of expression in cell lines with and w	tidine nalysis	1-6 (1894)
Yang, F. et al. "Human transferrin: cDNA characterization and chromosomal localization" p. 2752-2756 X Proc. Natl. Acad. Sci. U.S.A., Vol. 83, 1986, Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	x	G.I. et al. "Human alpha-2-macroglobulin gene is 1		1-6 (1895)
Ny, T. et al. "Cloning and sequence of a cDNA coding for the human beta-migrating endothelial-cell-type plasminogen activator inhibitor" p. 6776-6780 X J. Biol. Chem., Vol. 267, 1992, Bausch-Jurken, M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa (1904)		Yang, F. et al. "Human transferrin: cDNA characterizat:	ł	1-6 (1902)
M. T. et al "Molecular cloning of AMP deaminase isoform L: Sequence and bacterial expression of human AMPD2 cDNA" p. 22407-22413 X Gene, Vol. 44, 1986, Board, P. G. et al. "Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa		Ny, T. et al. "Cloning and sequence of a cDNA coding the human beta-migrating endothelial-ce	for	1-6 (1904)
"Molecular cloning and nucleotide sequence of human alpha-1 acid glycoprotein cDNA" p. 127-131 X Eur. J. Biochem., Vol. 155, 1986, Wathelet, M. et al. "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	1	M. T. et al "Molecular cloning of AMP deaminase isc L: Sequence and bacterial expression of	oform	1-6 (1908)
et al. (2101) "Molecular cloning, full-length sequence and preliminary characterization of a 56-kDa	ì	"Molecular cloning and nucleotide seque numan alpha-l acid glycoprotein cDNA"	ence of	1-6 (1921)
	F P	et al. 'Molecular cloning, full-length sequenc preliminary characterization of a 56-kD	e and	1-6 (2101)

International application No.
PCT/JP94/01916

	PCT/JP94/01916				
C (Continuotion). DOCUMENTS CONSIDERED TO BE RELEVANT					
Category°	Citation of document, with indication, where appropriate, of the rele	Relevant to claim No.			
х	Nucleic Acids Res., Vol. 11, 1983, Che et al. "Interferon induced 56,000 mr protein its mRNA in human cells: molecular cloand partial sequence of the cDNA" p. 1213-1226	and	1-6 (2101)		
x	Biochemistry, Vol. 25, 1986, Koide, T. "Amino acid sequence of human histidinglycoprotein derived from the nucleoti sequence of its cDNA" p. 2220-2225	e-rich	1-6 (2174)		
х	Biochemistry, Vol. 22, 1983, Friezner-S. J. et al. "Characterization of the complementary deoxyribonucleic acid and gene coding human prothrombin" p. 2087-2097		1-6 (2214)		
x	Biochem. J., Vol. 268, 1990, Steinkass A. et al. "Heterogeneity in human serum amyloid protein. Five different variants from individual demonstrated by cDNA sequent analysis." p. 287-193	A one	1-6 (2238)		
х	Nucleic Acids Res., Vol. 17, 1989, Fab. G. M. et al. "Sequence of a cDNA specifying subunit of human cytochrome c oxidase" p. 7107	VIIa	1-6 (2264)		
x	Proc. Natl. Acad. Sci. U.S.A., Vol. 86 Sims, J. E. et al. "Cloning of the interleukin 1 receptor human T cells" p. 8946-8950		1-6 (2265)		
	Eur. J. Biochem., Vol. 169, 1987, Macking. M. et al. "Molecular cloning of cDNA for human complement component Cls. The complete acid sequence" p. 547-553		1-6 (2266)		
	J. Virol., Vol. 65, 1990, Tsujimoto, A. "Isolation of cDNA for DNA binding protwhich specifically bind to TAX-responsienhancer element in the LTR of HTLA-1" p. 1420-1426	ceins	1-6 (2475)		
	Immunogenetics, Vol. 37, 1993, Emi, N. "Isolation of a novel cDNA clone showin marked similarity to ME491/CD63 superfap. 193-198	ıg	1-6 (2556)		
1	Nature, Vol. 353, 1991, Kelly, A. P. et "A new human HLA class II-related locus p. 571-573	al. , DM"	1-6 (2583)		

International application No.
PCT/JP94/01916

C (Contin	mution). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.
х	J. Biol. Chem., Vol. 265, 1990, Hla, T "An abundant transcript induced in differentiating human endothelial cell encodes a polypeptide with structural similarities to G-protein-coupled reception of the protein of the	s	1-6 (2600)
х	J. Biol. Chem., Vol. 267, 1992, White, et al. "Human adipsin is identical to compleme factor D and expressed at high levels adipose tissue" p. 9210-9213	ent	1-6 (2802)
х	Proc. Natl. Acad. Sci. U.S.A., Vol. 87, Rouault, T. A. et al. "Cloning of the cDNA encoding RNA regul protein-the human iron-responsive eleme binding protein" p. 7958-7962	atory	1-6 (2832)
х	Nucleic Acids Res., Vol. 17, 1989, Sawa R. et al. "Complementary DNA sequence and deduced peptide sequence for CD59/MEM43 antigen the human homologue of murine lymphocyt antigen Ly-6c" p. 6728-6728		1-6 (2954)
х	DNA Cell Biol., Vol. 9, 1990, Sawada, R "Isolation and expression of the full-lecDNA encoding CD59 antigen of human lymphocytes" p. 213-220	. et al.	1-6 (2954)
	Proc. Natl. Acad. Sci. U.S.A., Vol. 87, Weller, P. A. et al. "Complete sequence of human vinculin and assignment of the gene to chromosome 10°p. 5667-5671		1-6 (2983)
1	Cell, Vol. 58, 1989, Mellentin, J. D. et "LYL-1, a novel gene involved by chromostranslocation in T-cell leukemia, codes protein with a helix-loop-helix DNA bind notif" p. 77-83	for a	1-6 (3023)
i	Cell, Vol. 60, 1990, Uze, G. et al. Genetic transfer of a functional human interferon alpha receptor into mouse cellioning and expression of its cDNA col. 225-234	ls:	1-6 (3041)
w w	piochem. Biophys. Res. Commun., Vol. 179 991, Xiao, L. et al. Characterization of a full length cDNA which codes for the human spermidine/sper -1-acetyltransferase" p. 407-415		1-6 (3053)

International application No.
PCT/JP94/01916

Category®	Ciption of document, with indication, where appropriate, of the relevant passages Relevant to claim		
		Kelevali io Calim Mo	
X	J. Biol. Chem., Vol. 266, 1991, Casero, R. A. Jr. et al. "Isolation and characterization of a cDNA clone that codes for human spermidine/spermine N-1-acetyltransferase" p. 810-814	1-6 (3053)	
х	Nucleic Acids Res., Vol. 20, 1992, Wintzerith, M. et al. "Sequence of the human RNA polymerase II largest subunit" p. 910-910	1-6 (3083)	
х	J. Cell Biol., Vol. 103, 1986, Lawler, J. et al. "The Structure of Human Thrombospondin, an/adhesive Glycoprotein with Multiple Calcium binding Sites and Homologies with Several Different Proteins" p. 1635-1648	1-6 (3266)	
х	Nature, Vol. 352, 1991, Maslen, C. L. et al. "Partial sequence of a candidate gene for the marfan syndrome" p. 334-337	1-6 (3334)	
х	J. Cell Biol., Vol. 111, 1990, Fishman, G. I. et al. "Molecular Characterization and Functional Expression of the Human Cardiac Gap Junction Channel" p. 589-598	1-6 (3403)	
x	Cell, Vol. 40, 1985, Ebina, Y. et al. "The human insulin receptor cDNA: The structural basis for hormone-activated membrane signalling" p. 747-758	1-6 (3447)	
i	Oncogne, Vol. 5, 1990, Westin, E. H. et al. "Alternative splicing of the human c-myb gene" p. 1117-1124	1-6 (3529)	
	Genomics, Vol. 4, 1989, Todd, S. et al. "cDNA sequence, interspecies comparison and gene mapping analysis of argininosuccinate lyase" p. 53-59	1-6 (3575)	
	FEBS Lett., Vol. 207, 1986, Codina, J. et al. "-Subunits of the human liver Gs/Gi signal-transducing proteins and those of bovine retinal rod cell transducin are identical" p. 187-192	1-6 (3796)	
	Nucleic Acids Res., Vol. 18, 1990, Roessler, B. J. et al. Cloning of two distinct copies of human phosphoribosyl pyrophosphate synthetase cDNA* D. 193-193	1-6 (3828)	

International application No.
PCT/JP94/01916

C (Continu	C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
х	J. Biochem., Vol. 109, 1991, Sonoda, Tomplete nucleotide sequence of human phosphoribosyl pyrophosphate synthetas I (PRS I) cDNA and a comparison with hand rat PRPS gene families p. 361-364	n se subunit numan	1-6 (3828)		
х	J. Biol. Chem., Vol. 263, 1988, Wermut et al. "Human carbonyl reductase: Nucleotide analysis of a cDNA and amino acid sequof the encoded protein" p. 16185-16188	sequence lence	1-6 (4033)		
x	Biochim. Biophys. Acta. Vol. 1048, 199 Forrest, G. L. et al. "Induction of a human carbonyl reducta located on chromosome 21" p. 149-155		1-6 (4033)		
x	Proc. Natl. Acad. Sci. U.S.A., Vol. 88 Schuetz, T. J. et al. "Isolation of a cDNA for HSF2: Evidenc two heat shock factor genes in humans' p. 6911-6915	e for	1-6 (4093)		
х	Nucleic Acids Res., Vol. 13, 1985, Hal R. A. et al. "Human Cu/Zn superoxide dismutase cDNA isolation of clones synthesising high of active or inactive enzyme from an expression library" p. 2017-2034		1-6 (4110)		
	Proc. Natl. Acad. Sci. U.S.A., Vol. 80 Sherman, L. et al. "Nucleotide sequence and expression of chromosome 21 - encoded superoxide dis mRNA" p. 5465-5469	human	1-6 (4110)		
	J. Biol. Chem., Vol. 268, 1993, David, et al. "Interaction with newly synthesized and retained proteins in the endoplasmic resuggests a chaperone function for human integral membrane protein IP90 (calnex p. 9585-9592	d eticulum n	1-6 (4373)		
	J. Exp. Med., Vol. 172, 1990, Tekamp-O et al. "Cloning and Characterization of cDNAs Murine Macrophage Inflammatory Protein its Human Homologues" p. 911-919	for	1-6 (4452)		

International application No.

PCT/JP94/01916

<i>.</i>	DOGRAFIE CONSIDERED TO BE BE EVANT		
(Continual	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		Γ
ategory°	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No
	Biochemistry, Vol. 30, 1991, Tomkinson al. Characterization of cDNA for human tripeptidyl peptidase II: The N-termin of the enzyme is similar to subtilisin p. 168-174	al part	1-6 (4522)
	J. Biol. Chem., Vol. 263, 1988, Verma, et al. "Complete primary structure of a human membrane Ca2+ pump" p. 14152-14159		1-6 (4673)
	J. Biol. Chem., Vol. 267, 1992, Shechtet al. "Solubilization, purification and characterization of a truncated form of the patic squalene synthetase" p. 8628-86	f rat	1-6 (4818)
	J. Biol. Chem., Vol. 267, 1992, Mckenz T. L. et al. "Molecular cloning, expression, and characterization of the cDNA for the ra hepataic squalene synthase" p. 21368-22	at	1-6 (4818)
3	Nucleic Acids Res., Vol. 13, 1985, Furt Y. et al. "Cloning and characterization of the cl for human and rabbit interleukin-l pred p. 5869-5882	ONAs	1-6 (4872)
r t	Proc. Natl. Acad. Sci U.S.A., Vol. 89, Katoh, M. et al. "K-sam gene encodes secreted as well as transmembrane receptor tyrosine kinase' p. 2960-2964	,	1-6 (4914)
e c	Differentiation, Vol. 42, 1989, Kuruc, et al. Synthesis of cytokeratin 13, a compone characteristic of internal stratified epithelia, is not induced in human epiceumors p. 111-123	ent	1-6 (5264)
e n p	J. Biol. Chem., Vol. 266, 1991, Kiefer, et al. 'Identification and molecular cloning chew 30-kDa insulin-like growth factor proteins isolated from adult human serul. 9043-9049	of two binding	1-6 (5374)

International application No.

		PCT/JP94/01916	
C (Contin	tuation). DOCUMENTS CONSIDERED TO BE RELEVANT		,
Category*	Citation of document, with indication, where appropriate, of the releva	nt passages	Relevant to claim No.
x	J. Biol. Chem., Vol. 265, 1990, Opipari, A. W. et al. "The A20 cDNA induced by tumor necrosis factor alpha-encodes a novel type of zinc finger protein" p. 14705-14708		1-6 (5427)
х	J. Biol. Chem., Vol. 265, 1990, McLean, et al. "cDNA sequence of the human integrin be subunit" p. 17126-17131		1-6 (5715)
x	Cell, Vol. 66, 1991, Ge, H. et al. "primary structure of the human splicin factor ASF reveals similarities with dr regulators" p. 373-382	g osophila	1-6 (5860)
x	Cancer Res., Vol. 52, 1992, Kondoh, N. "Differential expression of S19 ribosom protein, laminin binding protein and HL class I mRNAs associated with colon care progression and differentiation" p. 791-	al A cinoma	1-6 (6439)
x	J. Biol. Chem., Vol. 263, 1988, Collart, et al. "Cloning and sequence analysis of the huand chinese hamster inosine-5' -monophosdehydrogenase cDNA" p. 15769-15772	ıman	1-6 (6471)
	J. Biol. Chem., Vol. 261, 1986, Romeo, Fet al. "Molecular cloning and nucleotide sequent a complete human uroporphyrinogen decarboxylase cDNA" p. 9825-9831	i	1-6 (6569)
	J. Cell Biol., Vol. 106, 1988, Leube, R. et al. "Molecular characterization and expressithe stratification-related cytokeratins 15" p. 1249-1261	on of	1-6 (6875)
	Proc. Natl. Acad. Sci. U.S.A., Vol. 85, Daher, K. A. et al. "Isolation and characterization of human defensin cDNA clones" p. 7327-7331	İ	1-6 (7106)
5	J. Exp. Med, Vol. 172, 1990, Larsen, A. Expression Cloning of a Human Graulocyte Colony-stimulating Factor Receptor: a Structural Mosaic of Hematopoietin Receptmunoglobulin, and Fibronectin Domains 5. 1559-1570	e	1-6 (7126)

International application No.
PCT/JP94/01916

		PCT/JI	94/01916
C (Continu	Astion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Categorye	Citation of document, with indication, where appropriate, of the relev	Relevant to claim No.	
х	Oncogene, Vol. 8, 1993, Schulz, A. S. "The genomic structure of the human UF receptor" p. 509-513	et al. O	1-6 (7790)
A	Nature Genetics, Vol. 2, 1992, Okubo, "Large scale cDNA sequencing for analy quantitative and qualitative aspects o expression" p. 173-179	eic of	1-6_
A	Nature Genetics, Vol. 2, 1992, Khan, A al. "Single pass sequencing and physical agenetic mapping of human brain cDNAs" p. 180-188	i	1-6
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